

ABSTRACT

The present invention is directed to a flat cable circuit board assembly having solder joints between the flat cable's round conductors and the solder pads of a circuit board, particularly in the clockspring of an automobile. The flat cable is formed without the use of adhesives by sonically bonding a top and bottom layer of insulating material around the round conductors. The end of the flat cable is stripped so that the round conductors can be soldered to the solder pads on the circuit board using a hot bar soldering process. The use of round conductors and solder pads on the circuit board allow for greater conductor density in the flat cable.